



General presentation ViaTech company & products

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ViaTech facts

- ViaTech is a Norwegian Company (mostly owned by the employees) with a comprehensive range of tailor-made products to measure different characteristics of the pavement surface and nearby area.
- Our products are:
 - ViaPPS (Pavement Profiling System)
 - Via3DMapper (Mobile mapping system)
 - ViaIRI+ (Texture Measuring System)
 - ViaPhoto (Photographic Systems)
 - ViaFriction (Friction Measuring Systems)
 - Software for the above
 - Engineering for high tech companies
- New Products to be launched soon
- Advisors for Authority

ViaTech Product range ViaFriction®





Over 150 sold CEN/TS 15901-14



Fixed slip 1-75%

Friction system-split friction trailer



New system for Norway



- Combined winter and summer measurement
- Both wheel paths
- Can measure 50km on one tank of water in summer.
- Has measured more than 25 000 km since Q4-2017



ViaFriction® Extended-split friction





The Master-Oscar







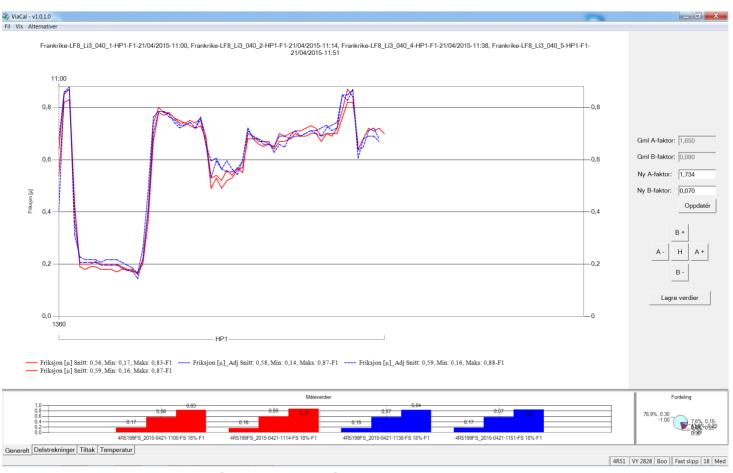
Bjorli 2019 friction harmonization event



9 ViaFriction and 1 Oscar



ViaCal (SW used for harmonisation)



Calibration of A and B factors vs. a master device

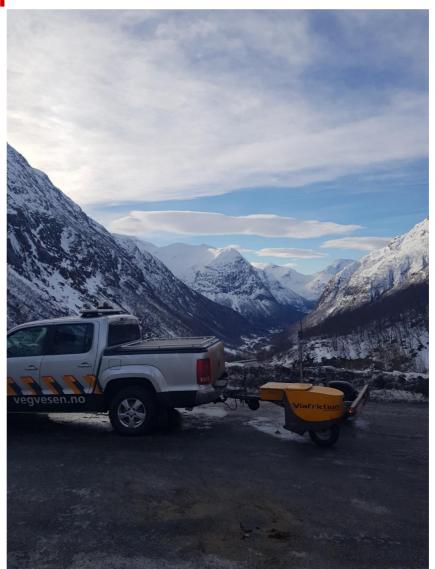


ViaFriction Winter

Used by Contractors and Road Authority

24/7

Finds black ice





ViaFriction-Split friction winter trailer







Pavement Profile Scanner (ViaPPS)

New Generation ViaPPS with LiDAR (as from 2015):



POS LV from Applanix

Delivery to the Norwegian Road Authority-May 2015



Pavement Profile Scanner (ViaPPS)

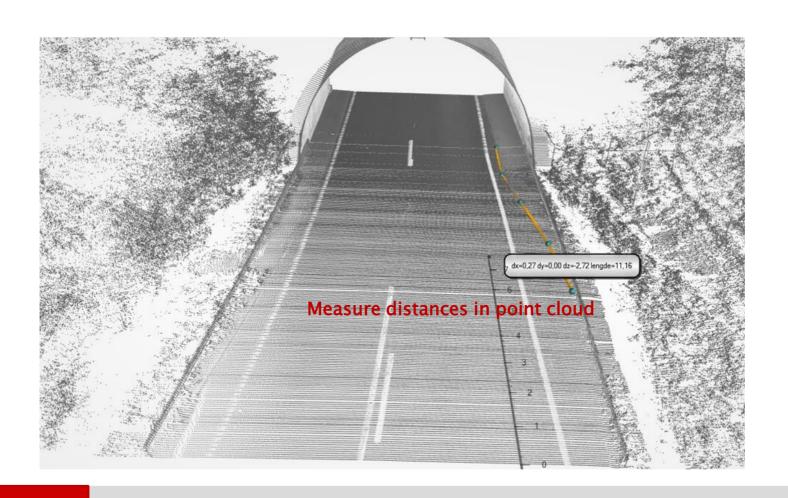
ViaPPS do/calculates the following parameters:

- Longitudinal and transversal profile
- Rut depth, rut area and rut area volume
- Crossfall & Crossfall vs. Requirement
- Curve radius
- Longitudinal deflection/Bumps
- IRI
- MPD
- Width of the lane (input to calculations also)
- Bad joints of the asphalt
- Crack parameters
- Accident investigation
- Tunnel/Bridge profile incl. height
- 3D data to external standard format such as xyzi, las/laz
- WEB interface
- 360 Photo integration
- Orbit GT SW integration
- Side area (Objects etc.)
- ++New parameters (like Sightlines, Asphalt mass estimation, Homogeneity, etc.)
- AI
- New sensors
- → All in the same run and with automatic reporting!





ViaPPS - 3D point cloud



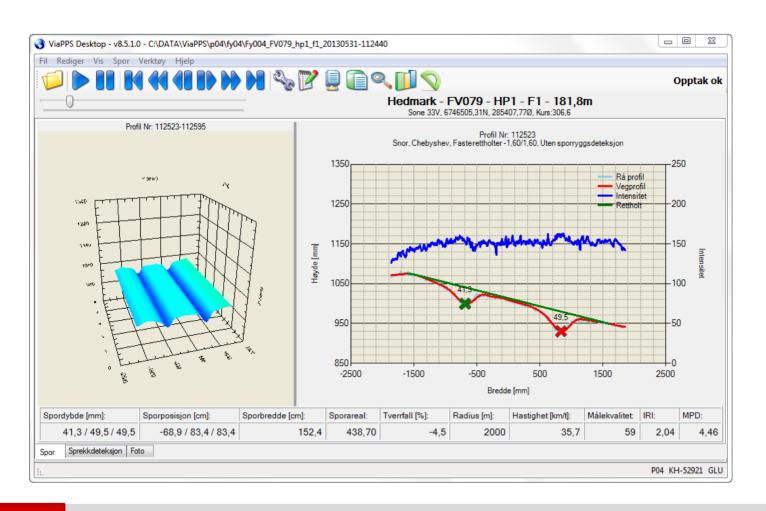


ViaPPS - Rut depth



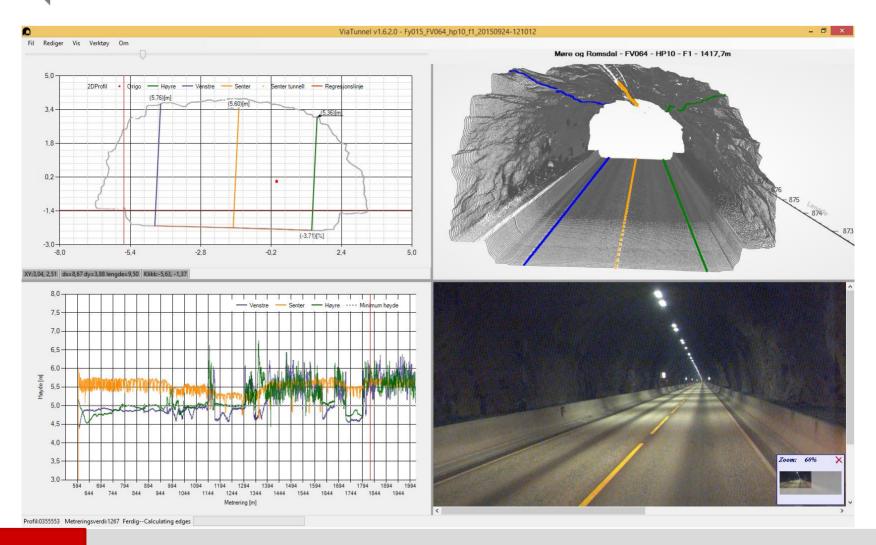


ViaPPS - Rut depth



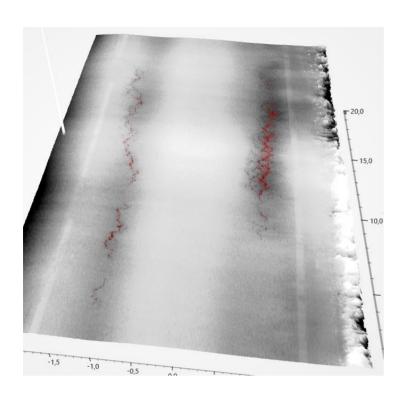


ViaTunnel – Main Window





ViaPPS - Surface Defects







ViaPPS - Color coding defects on map





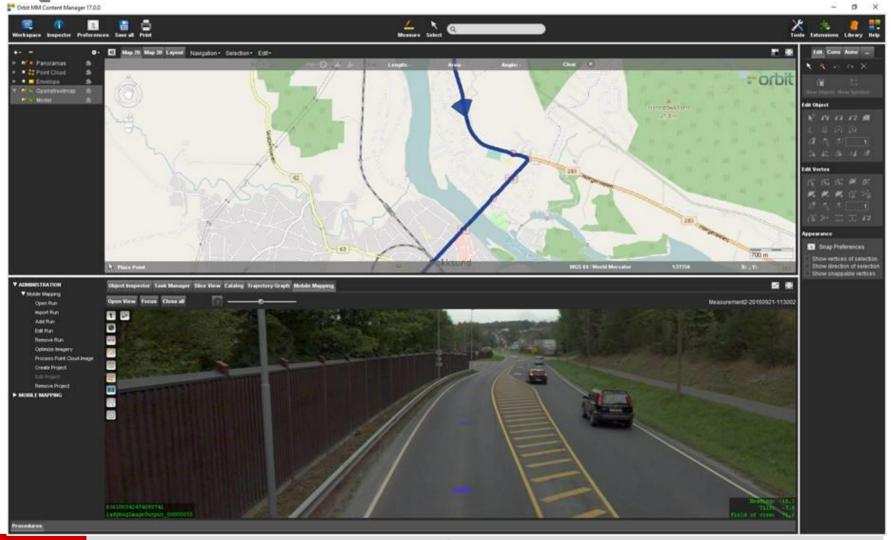
360 Photosystem on a ViaPPS







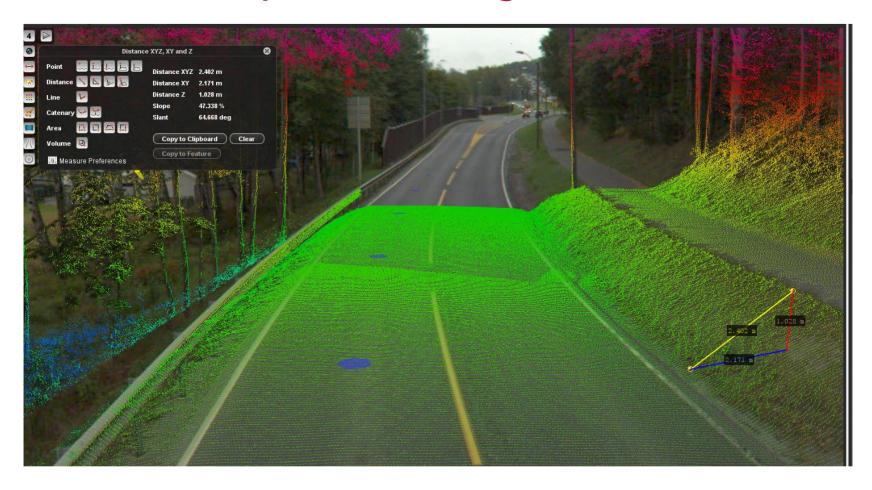
Orbit GT integration



The example show use of ViaPhoto360



Orbit GT integration Picture and point cloud together



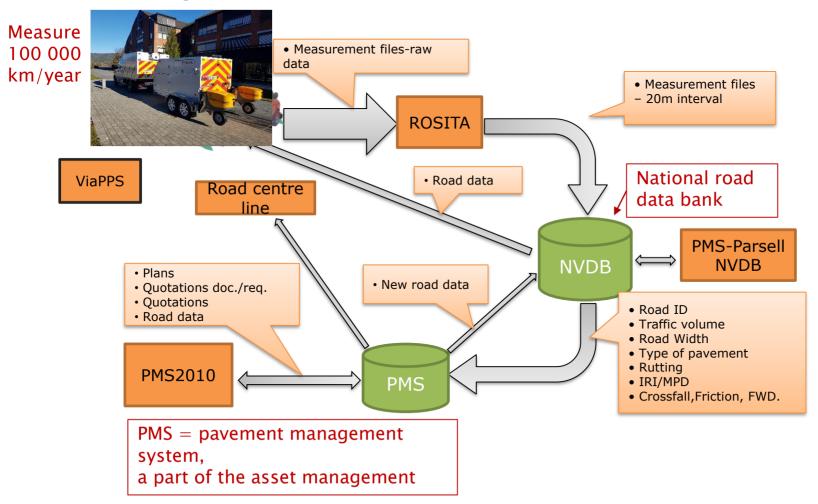


Texture Scanner (Via IRI+)





Glimpse of PMS2010 - NVDB - Dataflow





Via3DMapper®

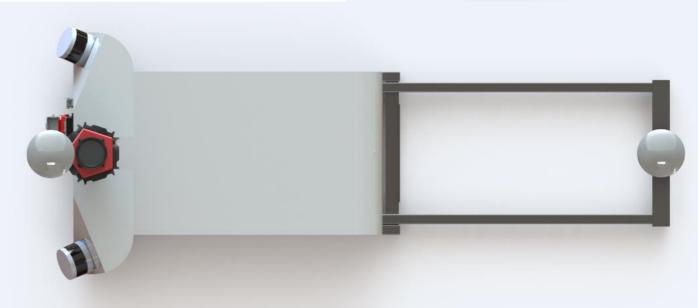
360 Photosystem with Ladybug 5+

2 LiDAR sensors-Velodyn

Trimble-Applanix GNSS

DMI







Via3DMapper®





Thank You!

